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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 09/985,879 | 11/06/2001 | Joseph Nardone | 003636.0126 | 4505 |
| 36405 | 7590 | 09/10/2004 | EXAMINER | |
| MANNAVA & KANG 281 MURTHA ST ALEXANDRIA, VA 22304 | | | TRAN, QUOC A | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2176 | |

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 09/985,879 | NARDONE ET AL. | |
| | Examiner | Art Unit | |
| | Quoc A. Tran | 2176 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 1-45 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to application filed 11/06/2001.
2. Claims 1-45 are pending. Claims 1, 12, 19, 30 and 41 are independent claims.

Claim Objections

3. Claim 18, objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form, see Claim 18, line 25, page 24, "Claim 18. The method according to claim 18". Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
5. **Claims 1-2, 4-20, 22-29, 30-31, 33-40, 41-42 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable by Hawkins et al. US Patent No. 6,000,000 issued 12/07/1999 filed 05/04/1998 (hereinafter '000), in view of pajakowski et al. US Patent No. 6,718,425 B1 issued 04/06/2004 filed 05/31/2000 (hereinafter '425).**

Claim 1 is representing claims 2, and 4-11;

In regard to independent claim 1, *“selecting a first database and a second database; mapping at least one field of said first database to a corresponding field of said second database in a map file; programming a conduit with said map file; and executing said conduit with said map file in response to a synchronization request, wherein said conduit provides synchronization rules from said map file for said first database and said second database”*, as taught by ‘000 at col. 2, line 55 through col. 4, line 22 (i.e.... synchronize the data between several different independent applications which run on the handheld computer system and the personal computer system using a single synchronization command... The synchronization system consists of three main program elements running on the personal computer system: a memory resident monitor program, a sync manager library, and at least one conduit library... first element is a memory resident monitor program, known as hotsync... second element is a sync manager library... invokes each conduit library one by one...), and also as taught by ‘000 at col. 4, lines 20-25 (i.e.... FIG. 4 illustrates a block diagram of an architecture for synchronizing databases on a handheld computer system and a personal computer system...);

‘000 does not explicitly teach, “ *graphical user interface* ”, however, as taught by ‘425 at col. 15, lines 33-37 (i.e..... The user interface ... is designed to be an intuitive presentation of public data link information. Users familiar with the Palm type handheld computer style interface should have no problems navigating screens and interpreting information...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a feature, wherein the graphical user interface is embedded in the system. One of the ordinary skills in the art would have been motivated to perform such a modification to perform application specific tasks desired by the user, as taught by '452 at col. 15, lines 33-55 (i.e. The user interface...).

In regard to dependent claim 2, *"browsing for one of said first database and said second database in response to selection of said first database and said second database; and importing said other one of said first database and said second database in response to selection of said first database and said second database"*, as taught by '000 at col. 5, lines 25-40 (i.e.... The sync manager library 410 implements a library of functions that are made available to other programs for synchronizing databases. To communicate with the handheld computer 110 the sync manager library 410 also uses the communication link code such as communication link X code 451 that controls communication link X 411... the sync manager library 410 oversees the synchronization process and uses individual "Conduit" libraries to perform the synchronization of each database...).

In regard to dependent claim 4, *"mapping of said at least one field of said first database to said respective field of said second database to said map file"*, as taught by '000 at col. 7, lines 40-50 (i.e.... read the databases. For this particular conduit that synchronizes two databases, the conduit library 421 opens up a local database located on the personal computer at step 615. At step 620, the conduit library then calls the function SyncOpenDB() in the sync manager library 410 to open up a corresponding

Art Unit: 2176

database on the handheld computer 110...SyncOpenDB() function and other database functions... Next the conduit creates an empty file on the PC at step 630 to copy information from the database on the handheld computer system 110. The conduit library 421 may read the records from the handheld database one by one until an entire copy of the handheld database is created on the personal computer system ...), also as taught by '000 at col. 21, lines 1-20 (i.e..... The fields of the display configuration records are shown in the following table...).

In regard to dependent claim 5, *"selecting said first database from said second graphical user interface; importing a plurality of fields of said first database; and displaying said plurality of fields of said first database"*, as taught by '000 at col. 7, lines 40-50 (i.e.... read the databases. For this particular conduit that synchronizes two databases, the conduit library 421 opens up a local database located on the personal computer at step 615. At step 620, the conduit library then calls the function SyncOpenDB() in the sync manager library 410 to open up a corresponding database on the handheld computer 110...SyncOpenDB() function and other database functions... Next the conduit creates an empty file on the PC at step 630 to copy information from the database on the handheld computer system 110. The conduit library 421 may read the records from the handheld database one by one until an entire copy of the handheld database is created on the personal computer system ...), also as taught by '000 at col. 21, lines 1-20 (i.e..... The fields of the display configuration records are shown in the following table...).

In regard to dependent claim 6, *“selecting said second database from said second graphical user interface; importing a plurality of fields of said second database; and displaying said plurality of fields of said second database”*, as taught by ‘425 at col. 21, lines 1-20 (i.e.... The fields of the display configuration records are shown in the following table...).

In regard to dependent claim 7, incorporate substantially similar subject matter as cited in claims 1-2, and 4-6 above, and in further view of the following, and is similarly rejected along the same rationale.

“displaying said initial set of rules for said mapping of said plurality of fields”, as taught by ‘425 at col. 36, lines 5-15 (i.e.... customization...Conduit customization is achieved by accessing the HotSync Manager.sup.6 by right clicking the icon located in the bottom right portion of the PC screen and choosing Custom. Currently, the only options are to allow the conduit to transfer data from the handheld organizer to the PC ...).

In regard to dependent claim 8, *“The method according to claim 7, further comprising: selecting a rule from said set of rules; and deleting said rule from said set of rules”*, as taught by ‘425 at col. 14, lines 25-30 (i.e.... The status of each data item is indicated by the display. ... and to delete individual records. As this information is pulled from a data file--not a string of datalink messages ...).

In regard to dependent claim 9, incorporate substantially similar subject matter as cited in claims 1-2, and 4-7 above, and in further view of the following, and is similarly rejected along the same rationale.

Art Unit: 2176

In regard to dependent claim 10, incorporate substantially similar subject matter as cited in claims 1-2, and 4-7 above, and in further view of the following, and is similarly rejected along the same rationale.

In regard to dependent claim 11, *"The method according to claim 10, further comprising: saving said set of rules as said map file"*, as taught by '000 at col. 11, lines 40-45 (i.e.... Instructs the handheld computer system to locate and retrieve the information then store it in the passed structure. The calling client Conduit library must allocate enough memory in the general data area to hold the responding information...).

In regard to independent claim 12, incorporate substantially similar subject matter as cited in claim 1 above, and is similarly rejected along the same rationale.

In regard to independent claim 13, incorporate substantially similar subject matter as cited in claims 1-2 above, and is similarly rejected along the same rationale.

In regard to independent claim 14, incorporate substantially similar subject matter as cited in claim 2 above, and is similarly rejected along the same rationale.

In regard to independent claim 16, incorporate substantially similar subject matter as cited in claim 8 above, and is similarly rejected along the same rationale.

In regard to independent claim 17, incorporate substantially similar subject matter as cited in claims 7, 9, and 10 above, and is similarly rejected along the same rationale.

In regard to independent claim 18, incorporate substantially similar subject matter as cited in claim 11 above, and is similarly rejected along the same rationale.

In regard to claims 19-20 consecutively, are directed to a computer readable medium for performing the method of claims 1-2 consecutively, and are similarly rejected along the same rationale.

In regard to claims 22-29 consecutively, are directed to a computer readable medium for performing the method of claims 4-11 consecutively, and are similarly rejected along the same rationale.

In regard to claims 30-31 consecutively, are directed to an apparatus for performing the method of claims 1-2 consecutively, and are similarly rejected along the same rationale.

In regard to claims 33-40 consecutively, are directed to an apparatus for performing the method of claims 4-11 consecutively, and are similarly rejected along the same rationale.

In regard to claims 41-42, are directed to a conduit for performing the method of claims 1-2, and are similarly rejected along the same rationale.

In regard to dependent claim 45, *"The conduit according to claim 41, wherein each mapping file of said plurality of mapping files is configured to specify a direction of overwrite of data between a first database and a second database"*, as taught by '425 at col. 5, line 55 through col. 36, lines 5-15 (i.e.... To transfer data, select either the Synchronize the files⁷ or the Handheld overwrites Desktop option. To disable the conduit, select the Do Nothing option. The conduit does nothing in the Desktop overwrites handheld mode because data can only be transferred one way--from the handheld organizer to the PC...).

Art Unit: 2176

6. **Claims 3, 21, 32, and 43-44 are rejected under 35 U.S.C. 103(a) as being unpatentable by Hawkins et al. US Patent No. 6,000,000 issued 12/07/1999 filed 05/04/1998 (hereinafter '000), in view of pajakowski et al. US Patent No. 6,718,425 B1 issued 04/06/2004 filed 05/31/2000 (hereinafter '425), further in view of Hawkins et al. US Patent No. 6,330,618 issued 12/11/2001 filed 05/25/1999 (hereinafter '618).**

In regard to dependent claim 3, '000 and '435 do not explicitly teach, "*wherein said one of said first database and said second database is a client application database and said other one of said first database and said second database is an enterprise application database*", however, as taught by '618 at col. 10, lines 5-30 (i.e..... Hot Sync Program 615 can use the network address of the preferred personal computer to access the Hot Sync Manager Program on the preferred personal computer that is coupled to the TCP/IP Local Area Network 650... Sync Program 715 in the global computer system establishes a PPP or SLIP connection with an Internet Service Provider (ISP) 740. The SLIP/PPP session is established between the SLIP/PPP client on the portable computer system 710 and a SLIP/PPP server 743 at the ISP 740. The SLIP/PPP server at the ISP 740 can communicate across the global Internet to any Internet addressable location...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a feature, wherein the databases are a client/server application database. One of the ordinary skills in the art would have been motivated to perform such a modification to integrate the handheld computer system and personal

computer system, wherein the synchronizes software would easily recognize different synchronization environments (client/server) and minimal users interaction, as taught by '618 at Abstract (i.e....A tightly integrated the palmtop computer system and personal computer system...).

In regard to dependent claim 21, is directed to a computer readable medium for performing the method of claim 3, and is similarly rejected along the same rationale.

In regard to dependent claim 32, is directed to an apparatus for performing the method of claim 3, and is similarly rejected along the same rationale.

In regard to dependent claim 43, is directed to a conduit for performing the method of claim 3, and is similarly rejected along the same rationale.

In regard to dependent claim 44, "*The conduit according to claim 43, wherein other of said first database and said second database is an enterprise database*", as taught by '425 at col. 5, line 55 through col. 6, line 22 (i.e.... four primary system components: a handheld computer 12, such as a Palm Pilot.RTM. device, an adapter system 14, a handheld computer cradle 16 and a personal computer (PC) 18. ... transported to a central database for more advanced business analysis ...).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wright, Jr. et al U.S. Patent No. 5,857,201 issued 01/05/1999 filed 06/18/1996

Huang et al U.S. Patent No. 6,393,434B1 issued 05/21/2002 filed 09/14/1999

Art Unit: 2176

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (703) 305-8781, **"After mid-Oct, 2004, the examiner can be reach at (571) 272- 4103"**. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (703) 305-9792. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

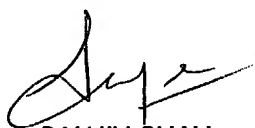
For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quoc A. Tran

Patent Examiner

Technology Center 2176

August 27, 2004



SANJIV SHAH
PRIMARY EXAMINER